BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

Name of Work:- Detailed estimate for Improvements to Medarahalli main road balance portion, in Ward no. 12, in Shettyhalli Sub-Division

			Est. Cost Rs				40.00	Lakhs	
Sl. No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. KSRB 2-1.2: – do – Hard soil(P.152, I. No..19.2 PW, P & IWTD -SR 2013-14)								
		Cum	1	51.00	3.50	0.30	**53.55**		
			1	48.00	3.20	0.30	**46.08**		
			1	120.00	4.00	0.30	**144.00**		
			1	83.00	4.00	0.30	**99.60**		
			1	93.00	4.00	0.30	**111.60**		
			1	80.00	3.90	0.30	**93.60**		
							548.43	90.72	**49754.00**
	Basic Rate	84.00							
	Add Area Weightage 8%	6.72							
	Total	**90.72**							
2	KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- I Material(P.167/I.20.41 PW, P & IWTD -SR 2013-14)								
		Cum	1	51.00	3.50	0.15	**26.78**		
			1	48.00	3.20	0.15	**23.04**		
			1	120.00	4.00	0.15	**72.00**		
			1	83.00	4.00	0.15	**49.80**		
			1	93.00	4.00	0.15	**55.80**		
			1	80.00	3.90	0.15	**46.80**		
							274.22	1060.56	**290821.0**
	Basic Rate	982.00							
	Add Area Weightage 8%	78.56							
	Total	**1060.56**							

3	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.167/I.20.18 PW, P & IWTD - SR 2013-14)								
		Cum	1	68.50	3.50	0.25	**59.94**		
			1	56.00	3.80	0.25	**53.20**		
			1	60.00	4.00	0.25	**60.00**		
			1	60.00	4.00	0.25	**60.00**		
			1	60.00	4.00	0.25	**60.00**		
			1	120.00	4.00	0.25	**120.00**		
			1	43.70	4.00	0.25	**43.70**		
							456.84	1121.04	**512133.00**
	Basic Rate	1038.00							
	Add Area Weightage 8%	83.04							
	Total	**1121.04**							
4	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 Page No. 175/ Item No. 21.6/ PWD SR 2013-14								
		Sqm	1	68.50	3.50		**239.75**		
			1	56.00	3.80		**212.80**		
			1	60.00	4.00		**240.00**		
			1	60.00	4.00		**240.00**		
			1	60.00	4.00		**240.00**		
			1	120.00	4.00		**480.00**		
			1	43.70	4.00		**174.80**		
							1827.35	44.28	**80915.00**
	Basic Rate	41.00							
	Add Area Weightage 8%	3.28							
	Total	**44.28**							
5	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications MORTH / Chapter 5. (Page No. 175, Item No. 21.1, PWD SR 2013-14								
	Medarahalli main road	Sqm	1	779.00	4.35		3388.65		
							3388.65	2.59	**8783.00**
	Basic Rate	2.40							
	Add Area Weightage 8%	0.19							
	Total	**2.59**							

6	KSRRB 500-7. Providing and applying tack coat on the prepared black topped surfaces at 2.5 kg per 10 sqm. heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 Page No. 176/ Item No. 21.7/ PWD SR 2013-14								
		Sqm	1	779.00	4.35		3388.65		
			1	304.60	4.35		1325.01		
							4713.66	17.93	**84506.00**
	Basic Rate	16.60							
	Add Area Weightage 8%	1.33							
	Total	**17.93**							
7	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5. With 60/70 grade bitumen. Page No. 176/ Item No. 21.11.2/ PWD SR 2013-14								
		Cum	1	68.50	4.20	0.05	14.39		
			1	58.00	4.00	0.05	11.60		
			1	45.00	4.00	0.05	9.00		
			1	23.50	4.00	0.05	4.70		
							39.69	6733.80	**267231.00**
	Basic Rate	6235.00							
	Add Area Weightage 8%	498.80							
	Total	**6733.80**							
8	KSRRB M500-19. Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 50930-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 (P.179/I.21.22.1) PW, P & IWTD - SR 2013-14)								
		Cum	1	779.00	4.35	0.040	135.55		
			1	304.60	4.35	0.040	53.00		
							188.55	11284.92	**2127731.00**
	Basic Rate	10449.00							

	Area Weightage 8%	835.92							
		11284.92							
9	KSRRB 400-13 Carriage of mixed materials 10 Kms, For items of Sl.no 1.c) rs. 5.20 per tonne Page no 186 PWD SR 2013-14.								
	Qty vide item No 7=8	Cum					228.23		
							228.23	56.16	12817.00
	Basic Rate	52.00							
	Area Weightage 8%	4.16							
		56.16							
10	KSRRB M800-13. Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and lying of hot applied Thermoplastic Compound 2 5mm thick including Reflectrising Glass Beads at 250 gms per Sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803. Page No. 197/ Item No. 24.15/ PWD SR 2013-14								
	Lane Line	Sqm	2	779.00	0 10	-	155.80		
	Centre Line	0.50	2	34.60	0.10	-	60.92		
							216.72	471.96	102283.00
	Basic Rate	437.00							
	Area Weightage 6%	26.22							
		463.22							
11	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead **10 Km** a)Basic rate for haulage of materials as per item No 17.4/KSRRB M100-4 1 Rs **2.00** Tonne/Km b)Average earth of work **1.28** Tonne/Km for Rs. **2.00**/Km c)Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. **62.20** (P.150, I no.18.57/1, PWD SR 2013-14)								
	Qty Vide Item No=1	Cum					548.43		
	Qty Limited to						548.43	72.71	39876.00
	Basic Rate (Rs.2.0 x 1.28 x 2 kms)	5.12							
	Loading and Unloading Charges	62.20							357685.00
		67.32			KRIDL Charges + 1% CESS				387000.00
	Area Weightage 8%	5.39							
	Total	**72.71**			QC 1% Charges				35769.00
12	Miscellaneous and other unforseen charges.								381.00
								Total	4000000.00

(Rupees Forty Lakhs Only)

CERTIFICATE

1 The work sport has been inspected and the work found to be necessary
2 This estimate is prepared as per the PWD S.R of 2013-14
3 The provisions made in estimate are adequate and essential
4 This area comes under BBMP limits

Asst. Engineer
Ward No-12

Asst.Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

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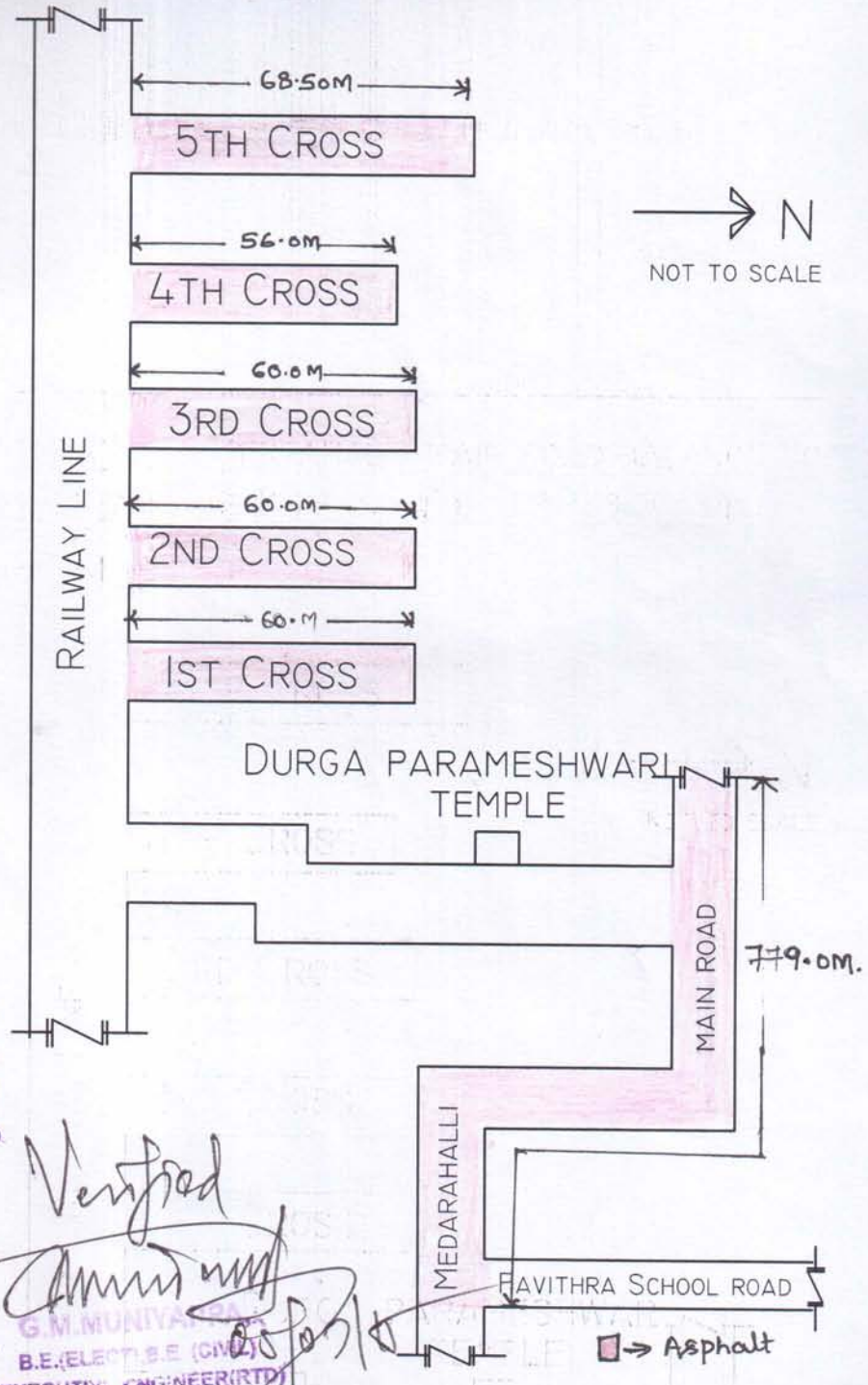
SKETCH SHOWING IMPROVEMENTS TO MEDRAHALLI MAIN ROAD BALANCE PORTION IN WARD NO-12 IN SHETTYHALLI SUB DIVISION, UNDER 22.75% GRANT



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Verified

Asst Engineer
Ward No-12

G.M.MUNIYAPPA
B.E.(ELECT) B.E.(CIVIL)
EXECUTIVE ENGINEER(RTD)
PUBLIC WORKS DEPARTMENT